SEQUENCE LISTING

<110> Blatt, Lawrence M. <120> SYNTHETIC CHEMOKINE RECEPTOR LIGANDS AND METHODS OF USE THEREOF <130> INTM-033WO <140> Unassigned <141> <150> 60/471,404 <151> 2003-05-16 <160> 20 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 77 <212> PRT <213>'Artificial Sequence <220> <223> consensus IP-10 sequence <400> 1 Val Pro Leu Ser Arg Thr Gly Arg Cys Thr Cys Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu Glu Ile Ile Pro Pro 25 Ser Gln Phe Cys Pro Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn 40 Gly Glu Gln Arg Cys Leu Asn Pro Glu Ser Lys Ala Ile Lys Asn Leu 55 Ile Lys Lys Val Ser Arg Glu Met Ser Lys Lys Ser Pro 75 <210> 2 <211> 74 <212> PRT <213> Artificial Sequence <223> consensus I-TAC sequence Phe Pro Met Phe Arg Arg Gly Arg Cys Leu Cys Ile Ser Pro Gly Val Lys Ala Val Lys Val Ala Ser Leu Glu Lys Leu Ser Ile Met Tyr Pro Ser Asn Asn Cys Asp Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn Gly Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys Gln Ala Lys Leu Leu Ile Lys Lys Val Glu Arg Lys Lys Asn Phe

<210> 3

70

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<211> 104
<212> PRT
<213> Artificial Sequence
<220>
<223> consensus Mig sequence
Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser Thr Asn Gln
Gly Thr Val His Leu Gln Ser Leu Glu Lys Leu Lys Ile Phe Ala Pro
Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
                                                45
Gly Val Gln Arg Cys Leu Asn Pro Asp Ser Lys Asp Val Lys Glu Leu
Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Lys Gln Lys Asn
                    70
                                        75
Gly Lys Lys His Gln Lys Lys Val Leu Lys Val Arg Lys Val Gln
                85
Arg Ser Arg Gln Lys Lys Thr Thr
            100
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<211> 10
<212> PRT
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<223> epitope tag
<400> 4
Cys Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
<210> 5
<211> 8
<212> PRT
<213> Artificial Sequence
<223> epitope tag
Asp Tyr Lys Asp Asp Asp Lys
                5
<210> 6
<211> 11
<212> PRT
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<223> epitope tag
Cys Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
                 5
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<210> 7
 <211> 5
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 <213> Artificial Sequence
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 <223> protease cleavage site
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 Asp Asp Asp Lys
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 <211> 4
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 <223> protease cleavage site
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Ile Glu Gly Arg
<210> 9
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<213> Artificial Sequence
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<223> protease cleavage site
<400> 9
Leu Val Pro Arg Gly Ser
                 5
<210> 10
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<213> Artificial Sequence
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<223> protease cleavage site
<400> 10
His Pro Phe His Leu Val Ile His
<210> 11
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<223> Majority Sequence
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 34, 35, 37, 50, 57, 60, 61, 63, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87,
 88, 89, 90, 91, 92, 93, 94, 96, 98, 99, 100, 103, 104
 <223> Xaa = Any Amino Acid
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Xaa Pro Xaa Xaa Arg Xaa Gly Arg Cys Xaa Cys Ile Ser Xaa Xaa
Xaa Xaa Val Xaa Xaa Xaa Ser Leu Glu Lys Leu Xaa Ile Xaa Xaa Pro
Ser Xaa Xaa Cys Xaa Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
Gly Xaa Gln Arg Cys Leu Asn Pro Xaa Ser Lys Xaa Xaa Lys Xaa Leu
                       55
85
Arg Xaa Xaa Lys Lys Xaa Xaa
            100
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<213> Homo sapien
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Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
Ser Gly Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys
Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu
Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala
Thr Met Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys
                   70
                                      75
Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Met Ser Lys Arg
Ser Pro
<210> 13
<211> 94
<212> PRT
<213> Homo sapien
<400> 13
Met Ser Val Lys Gly Met Ala Ile Ala Leu Ala Val Ile Leu Cys Ala
                                  10
Thr Val Val Gln Gly Phe Pro Met Phe Lys Arg Gly Arg Cys Leu Cys
                              25
Ile Gly Pro Gly Val Lys Ala Val Lys Val Ala Asp Ile Glu Lys Ala
                          40
Ser Ile Met Tyr Pro Ser Asn Asn Cys Asp Lys Ile Glu Val Ile Ile
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80

Thr Leu Lys Glu Asn Lys Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys

Gln Ala Arg Leu Ile Ile Lys Lys Val Glu Arg Lys Asn Phe

85 90

<210> 14 <211> 125 <212> PRT

<213> homo sapien

<400> 14

115 120 17 17 17

<210> 15 <211> 98 <212> PRT

<213> Artificial Sequence

<220>

<223> hybrid CXCR3 ligand

<400> 15

 Met
 Lys
 Lys
 Ser
 Gly
 Val
 Leu
 Phe
 Leu
 Gly
 Ile
 Ile
 Leu
 Leu
 Val
 Leu
 Phe
 Phe
 Leu
 Gly
 Ile
 Leu
 Leu
 Leu
 Ile
 Leu
 Leu
 Val
 Leu
 Phe
 Phe
 Lys
 Arg
 Gly
 Arg
 Cys
 Leu
 Arg
 Cys
 Leu
 Arg
 Leu
 Glu
 Lys
 Arg
 Leu
 Arg
 Leu
 Glu
 Lys
 Arg
 Leu
 Arg
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 Glu
 Lys
 Arg
 Lys
 Arg
 Lys
 Arg
 Lys
 Arg
 Lys
 Arg
 Lys
 Arg
 Lys
 Ile
 I

Ser Pro

<210> 16

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> hybrid CXCR3 ligand

<400> 16

Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu

<210> 17 <211> 125 <212> PRT

<213> Artificial Sequence

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<223> hybrid CXCR3 ligand

<400> 17

 Met
 Asn
 Gln
 Thr
 Ala
 Ile
 Leu
 Ile
 Cys
 Cys
 Leu
 Ile
 Phe
 Leu
 Cys
 Ala

 Thr
 Val
 Val
 Gly
 Phe
 Pro
 Met
 Phe
 Lys
 Arg
 Gly
 Arg
 Cys
 Leu
 Cys

 Ile
 Gly
 Pro
 Gly
 Val
 Lys
 Ala
 Val
 Lys
 Val
 Lys
 Ala

 Ser
 Ile
 Met
 Tyr
 Pro
 Ser
 Asn
 Asn
 Cys
 Asn
 Asn
 Lys
 Ile
 Glu
 Val
 Ile
 Ile
 Ile
 Glu
 Lys
 Ala

 Ser
 Ile
 I

<210> 18 <211> 124 <212> PRT <213> Artificial Sequence

<220>
<223> hybrid CXCR3 ligand

<400> 18

 Met
 Asn
 Gln
 Thr
 Ala
 Ile
 Leu
 Ile
 Cys
 Cys
 Leu
 Ile
 Phe
 Leu
 Thr
 Leu

 Ser
 Gly
 Ile
 Gln
 Gly
 Val
 Pro
 Leu
 Ser
 Arg
 Thr
 Val
 Arg
 Cys
 Thr
 Cys
 Thr
 Cys
 Thr
 Cys
 Thr
 Cys
 Thr
 Cys
 Thr
 Cys
 Arg
 Ile
 Glu
 Lys
 Ile
 Glu
 Val
 Ile
 Ile
 Glu
 Val
 Ile
 Ile
 Glu
 Val
 Ile
 I

```
65
                    70
                                         75
 Gln Ala Arg Leu Ile Ile Lys Lys Glu Lys Gln Val Ser Gln Lys Lys
                85
                                     90
 Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys Val
           100
                                 105
 Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
<210> 19
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<212> PRT
<213> Artificial Sequence
<220>
<223> hybrid CXCR3 ligand
<400> 19
Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
                                    10
Ser Gly Ile Gln Gly Phe Pro Met Phe Lys Arg Gly Arg Cys Ser Cys
                                25
Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp Leu
                            40
Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Ile Glu Val Ile Ile
Thr Leu Lys Glu Asn Lys Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys
                    70
Gln Ala Arg Leu Ile Ile Lys Lys Glu Lys Gln Val Ser Gln Lys Lys
                                    90
Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Val Leu Lys Val
                                105
Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
<210> 20
<211> 98
<212> PRT
<213> Artificial Sequence
<223> hybrid CXCR3 ligand /
Met Ser Val Lys Gly Met Ala Ile Ala Leu Ala Val Ile Leu Cys Ala
Thr Val Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys
                                25
Ile Ser Ile Ser Asn Gln Thr Ile His Leu Gln Ser Leu Lys Asp Leu
Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Val Glu Ile Ile Ala
Thr Met Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys
                    70
                                        75
Gln Ala Arg Leu Ile Ile Lys Lys Val Ser Lys Glu Met Ser Lys Arg
                                    90
Ser Pro
```